ARNAV KUMAR

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Education

Nanyang Technological University Aug 2010 - Jun 2014	• B. Eng. (Hons.) in Computer Science with a GPA of **4.75/5**. • Minor in Business, Specialization in Intelligent Systems (expected). • **Dean's List** - Academic Year 2012-13 • Awarded **President's Research Scholarship** - offered to the top 5% of the cohort. • Awarded full scholarship for university education. • Represented NTU in International Collegiate Programming Competition (ACM-ICPC) Regionals 2011 held in Kuala Lumpur as a part of a 18 member contingent.
St. James' School Graduated in May 2010	• Indian School Certification (ISC) - 91%. (A - Level Equivalent) • Indian School Certificate Examination Result (ICSE) - 94%. (O - Level Equivalent)

Work Experience

IBM Corporation Software Engineering Intern May 2013 - Aug 2013	• Developed core components for a mobile port of IBM Security Access Manager for Enterprise Single Sign - On (ISAM-ESSOm) for providing single sign - on capabilities on the iOS platform for enterprise productivity. [App Store link] • Built the fully-featured, extensible, UIWebView - based embedded browser which provides Web single sign - on capabilities within the App.
IBM Corporation Software Engineering Intern Jun 2012 - Dec 2012	• Development – Prototyped new mobile solutions aimed at enhancing user experience and security of sensitive user information. This evolved into ISAM-ESSOm. • Quality Assurance – Configuration and troubleshooting server side components of a new solution for Privileged Identity Management. Automated the user-creation process during load-testing, reducing time required at this stage by 66%.

Project Work

Final Year Project Aug 2013 - Present	• Developing an app demonstrating interaction with real environments virtually. • Interfacing a Kinect, an iPhone, and a projector with a server to process motion.
Data Mining Aug 2013 - Oct 2013	• Led a team of 6 to develop an application (with a Django backend) to generate a timeline for the flow of Twitter hashtags across the globe and track local trends. [source]
Natural Language Processing Aug 2013 - Oct 2013	• Developed an application (with a Java + Flask backend) to summarize and analyse the sentiment of Twitter users about a subjects after extracting descriptive phrases from related tweets. [source]
Software Engineering Jan 2013 - May 2013	• Led a team of 6 develop dBauggle, an iOS word-game for children with special needs, built using the cocos2d framework. (1000+ downloads) [App Store link]
Pet Projects	• **Pebble Music Tweeter** - Watchapp + iOS app using the Twitter API, Last.FM API and Pebble SDK to tweet music info from the watch. [App Store link][source] (600+ downloads) • **Heal the World** - A game to educate people about world issues and a platform to connect them with agencies if they want to volunteer. Built using Meteor.js. [source][game]

Skills and Coursework

Relevant Courses	• Object Oriented Programming & Data Structures, Software Engineering, Database Systems, Operating Systems, Algorithms, Advanced Algorithms, Artificial Intelligence, Natural Language Processing, Data Mining.
Technical Skills	• Java, Objective-C, Python, Javascript, HTML/CSS and others.

Interests and Extra - Curricular Activities

Extra - Curricular Activities	• **President - NTU Open Source Society** - Headed the management committee of the special interest club that promotes the hacker culture. (AY2012-13) • **IT (Media) Officer - Computer Engineering Club (Student Council of the School)** - Steered the annual branding initiative, redesigned the School's publication (quadrupled reach to 2000) and organised the school's first Hackathon. (AY2012-13)
Interests	• Reading, Writing, Sports (football, rugby). Played Rugby competitively for 8 years. • Member of the NTU Rugby Squad between Sept 2010 and Aug 2011.